

\* NOTICES \*

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**CLAIMS**

---

[Claim(s)]

[Claim 1]Light storage excitation is carried out by light of a retroreflection field which has reflective ability, and a wavelength area including ultraviolet rays, A luminescence type information display device which possesses a light irradiation device which irradiates the surface of an information-display object which has a light storage luminous region which emits light in visible light, and this information-display object with light of a wavelength area which includes ultraviolet rays intermittently or intermittently, and is characterized by things.

[Claim 2]A retroreflection sheet in which, as for at least some information-display objects, the whole surface serves as a retroreflection field substantially, and the luminescence type information display device according to claim 1 in which the whole surface is substantially constituted by combination with a light storage light-emitting sheet used as a light storage luminous region.

[Claim 3]The luminescence type information display device according to claim 1 which, as for at least some information-display objects, many retroreflection fields and light storage luminous regions comprise with a light storage luminescence retroreflection sheet distributed regularly in one sheet.

[Claim 4]A luminescence type information display device given in any 1 paragraph of claims 1-3 which comprise a background from which an information-display object serves as the background of an indicator which consists of a character, a figure, a sign, etc., and this indicator.

[Claim 5]The luminescence type information display device according to claim 1 in which, as for at least some information-display objects, the whole surface is substantially constituted from a light storage luminous region formed by partial printing of included ink by a retroreflection sheet top used as a retroreflection field, or the upper part in light storing material.

[Claim 6]A luminescence type information display device given in any 1 paragraph of claims 1-3, and 5 in which a retroreflection field is formed of a minute sphere lens type retroreflection element.

[Claim 7]The luminescence type information display device according to claim 6 whose minute sphere lens type retroreflection element is a capsule lens mold retroreflection element.

[Claim 8]The luminescence type information display device according to claim 6 whose minute sphere lens type retroreflection element is an enclosure lens mold retroreflection element.

[Claim 9]A luminescence type information display device given in any 1 paragraph of claims 1-3, and 5 in which a retroreflection field is formed of a capsule cube-corner type retroreflection element.

[Claim 10]The luminescence type information display device according to claim 1 in which a light storage luminous region contains light storing material and a resinous principle.

[Claim 11]The luminescence type information display device according to claim 10 whose light storing material is oxide stock light storing material.

[Claim 12]Light storing material uses as a mother crystal a metallic oxide expressed with general formula  $MAI_2O_4$  (M expresses at least one sort of alkaline-earth metals among a formula), The luminescence type information display device according to claim 10 which is the light storing material in which  $1 \times 10^{-6}$  - 0.2 contain a rare earth metal atom as an activator comparatively (however, a sum total atomic number of a metal M atom and a rare earth metal atom is set to 1).